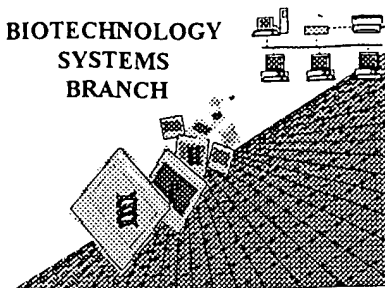




BIOTECHNOLOGY
SYSTEMS
BRANCH



0460
02-02-01

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/753,139
Source: OIFE
Date Processed by STIC: 1/23/2001

RECEIVED

APR 18 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

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As rescanning documents *will not* correct images,
Please do not report the images to the
Image Problem Mailbox.

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/753,139

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
 Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
 file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
 Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/753,139

DATE: 01/23/2001
 TIME: 10:38:55

Input Set : A:\ES.txt
 Output Set: N:\CRF3\01232001\I753139.raw

Does Not Comply
 Corrected Diskette Needed

pg 1-3

3 <110> APPLICANT: Quirk, Stephen
 4 Tyrrell, David
 6 <120> TITLE OF INVENTION: Design and Use of Advanced Zinc Chelating Peptides to Regulate Matrix
 7 Metalloproteinases
 9 <130> FILE REFERENCE: 44039-227522 11361-0200
 11 <140> CURRENT APPLICATION NUMBER: US/09/753,139
 11 <141> CURRENT FILING DATE: 2000-12-29
 11 <160> NUMBER OF SEQ ID NOS: 10
 13 <170> SOFTWARE: PatentIn version 3.0
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 7
 17 <212> TYPE: PRT
 18 <213> ORGANISM: Synthetic Peptide
 20 <220> FEATURE:
 21 <221> NAME/KEY: VARIANT
 22 <222> LOCATION: (2)..(2)
 23 <223> OTHER INFORMATION: X = Ser or Thr
 26 <220> FEATURE:
 27 <221> NAME/KEY: VARIANT
 28 <222> LOCATION: (4)..(4)
 29 <223> OTHER INFORMATION: X = Ser, Ala or Val
 32 <400> SEQUENCE: 1
 34 Cys Xaa Cys Xaa Pro His Pro
 35 1 5
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 12
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Synthetic Peptide
 42 <220> FEATURE:
 43 <221> NAME/KEY: VARIANT
 44 <222> LOCATION: (1)..(1)
 45 <223> OTHER INFORMATION: X = Ile or Val
 48 <220> FEATURE:
 49 <221> NAME/KEY: VARIANT
 50 <222> LOCATION: (2)..(2)
 51 <223> OTHER INFORMATION: X = Glu, Gln or Arg
 54 <220> FEATURE:
 55 <221> NAME/KEY: VARIANT
 56 <222> LOCATION: (3)..(3)
 57 <223> OTHER INFORMATION: X = Phe or Tyr
 60 <220> FEATURE:
 61 <221> NAME/KEY: VARIANT
 62 <222> LOCATION: (4)..(4)
 63 <223> OTHER INFORMATION: X = Ile or Val
 66 <220> FEATURE:
 67 <221> NAME/KEY: VARIANT
 68 <222> LOCATION: (5)..(5)

(Global error)

Per 1.823 of new Sequence Rules,
 the only valid (2137) responses are:
 Unknown, Artificial Sequence, or
 scientific name (Genus/species)

(one of the three)

(see circled portion of
 Item 12 on Error Summary
 Sheet)

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/753,139
 DATE: 01/23/2001
 TIME: 10:38:55
 Input Set : A:\ES.txt
 Output Set: N:\CRF3\01232001\I753139.raw

69 <223> OTHER INFORMATION: X = Tyr or His
 72 <220> FEATURE:
 73 <221> NAME/KEY: VARIANT
 74 <222> LOCATION: (7)..(7)
 75 <223> OTHER INFORMATION: X = Ala, Pro or Glu
 78 <220> FEATURE:
 79 <221> NAME/KEY: VARIANT
 80 <222> LOCATION: (8)..(8)
 81 <223> OTHER INFORMATION: X = Pro, Phe or Ala
 84 <220> FEATURE:
 85 <221> NAME/KEY: VARIANT
 86 <222> LOCATION: (9)..(9)
 87 <223> OTHER INFORMATION: X = Ser, Asp or Met
 90 <220> FEATURE:
 91 <221> NAME/KEY: VARIANT
 92 <222> LOCATION: (10)..(10)
 93 <223> OTHER INFORMATION: X = Ala or Ser
 96 <220> FEATURE:
 97 <221> NAME/KEY: VARIANT
 98 <222> LOCATION: (11)..(11)
 99 <223> OTHER INFORMATION: X = Val or Leu
 102 <220> FEATURE:
 103 <221> NAME/KEY: VARIANT
 104 <222> LOCATION: (12)..(12)
 105 <223> OTHER INFORMATION: X = Cys or Gly
 108 <400> SEQUENCE: 2
 110 Xaa Xaa Xaa Xaa Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa
 111 1 5 10
 113 <210> SEQ ID NO: 3
 114 <211> LENGTH: 9
 115 <212> TYPE: PRT
 116 <213> ORGANISM: Synthetic Oligonucleotide
 118 <220> FEATURE:
 119 <221> NAME/KEY: VARIANT
 120 <222> LOCATION: (1)..(1)
 121 <223> OTHER INFORMATION: X = Met, Val or Leu
 124 <220> FEATURE:
 125 <221> NAME/KEY: VARIANT
 126 <222> LOCATION: (2)..(2)
 127 <223> OTHER INFORMATION: X = His, Phe or Tyr
 130 <220> FEATURE:
 131 <221> NAME/KEY: VARIANT
 132 <222> LOCATION: (3)..(3)
 133 <223> OTHER INFORMATION: X = Ile or Thr
 136 <220> FEATURE:
 137 <221> NAME/KEY: VARIANT
 138 <222> LOCATION: (4)..(4)
 139 <223> OTHER INFORMATION: X = Thr, His or Gly
 142 <220> FEATURE:

*this is not a nucleotide sequence
 see p. 1 regarding (2137) response*

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/753,139 DATE: 01/23/2001
 TIME: 10:38:55

Input Set : A:\ES.txt
 Output Set: N:\CRF3\01232001\I753139.raw

143 <221> NAME/KEY: VARIANT
 144 <222> LOCATION: (5)..(5)
 145 <223> OTHER INFORMATION: X = Leu or Thr
 148 <220> FEATURE:
 149 <221> NAME/KEY: VARIANT
 150 <222> LOCATION: (7)..(7)
 151 <223> OTHER INFORMATION: X = Asp, Asn or Ser
 154 <220> FEATURE:
 155 <221> NAME/KEY: VARIANT
 156 <222> LOCATION: (8)..(8)
 157 <223> OTHER INFORMATION: X = Phe or Tyr
 160 <220> FEATURE:
 161 <221> NAME/KEY: VARIANT
 162 <222> LOCATION: (9)..(9)
 163 <223> OTHER INFORMATION: X = Ile or Val
 166 <400> SEQUENCE: 3
 OK--> 168 Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
 169 1.. 5
 171 <210> SEQ ID NO: 4
 172 <211> LENGTH: 7
 173 <212> TYPE: PRT
 174 <213> ORGANISM: Synthetic Oligonucleotide
 176 <400> SEQUENCE: 4
 178 Cys Ser Ala Val Pro Val His
 179 1.. 5
 181 <210> SEQ ID NO: 5
 182 <211> LENGTH: 7
 183 <212> TYPE: PRT
 184 <213> ORGANISM: Synthetic Peptide
 186 <400> SEQUENCE: 5
 188 Asp Ser Ala Val Pro Val His
 189 1.. 5
 191 <210> SEQ ID NO: 6
 192 <211> LENGTH: 9
 193 <212> TYPE: PRT
 194 <213> ORGANISM: Synthetic Peptide
 196 <400> SEQUENCE: 6
 198 Ile Tyr Thr Ala Cys Met Ser Ala Val
 199 1.. 5
 201 <210> SEQ ID NO: 7
 202 <211> LENGTH: 7
 203 <212> TYPE: PRT
 204 <213> ORGANISM: Synthetic Peptide
 206 <400> SEQUENCE: 7
 208 Val His Thr His Leu Cys Asp
 209 1.. 5
 211 <210> SEQ ID NO: 8
 212 <211> LENGTH: 5
 213 <212> TYPE: PRT

*not a nucleotide sequence
 see p. 1 regarding (2137) response*

see p. 1 regarding (2137) response

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/753,139 DATE: 01/23/2001
TIME: 10:38:55

Input Set : A:\ES.txt
Output Set: N:\CRF3\01232001\I753139.raw

214 <213> ORGANISM: Synthetic Peptide
216 <400> SEQUENCE: 8
218 Cys Thr Cys Val Pro
219 1 5
221 <210> SEQ ID NO: 9
222 <211> LENGTH: 4
223 <212> TYPE: PRT
224 <213> ORGANISM: Synthetic Peptide
226 <400> SEQUENCE: 9
228 Cys Asp Ile Cys
229 1
231 <210> SEQ ID NO: 10
232 <211> LENGTH: 5
233 <212> TYPE: PRT
234 <213> ORGANISM: Synthetic Peptide
236 <400> SEQUENCE: 10
238 His Thr Ile Thr His
239 1 5

VERIFICATION SUMMARY DATE: 01/23/2001
PATENT APPLICATION: US/09/753,139 TIME: 10:38:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01232001\I753139.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3